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APPLICATION NO	D.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,730 08/21/2003		08/21/2003	Marie-Laure Labat	11123.72US01	8210
23552	7590	01/28/2005		EXAMINER	
		OULD PC	ALSOMIRI, ISAM A		
P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903			·	ART UNIT	PAPER NUMBER
	,			3662	
				DATE MAILED: 01/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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/		Application No.	Applicant(s)	1
0/-		10/645,730	LABAT ET AL.	
V o	ffice Action Summary	Examiner	Art Unit	
		Isam A Alsomiri	3662	
<i> The</i> Period for Re _l		cation appears on the cover sheet	with the correspondence address	i
A SHORTE THE MAIL! - Extensions of after SIX (6) - If the period - If NO period - Failure to rey Any reply rec	ENED STATUTORY PERIOD FO NG DATE OF THIS COMMUNIO If time may be available under the provisions of MONTHS from the mailing date of this communion for reply specified above is less than thirty (30 for reply is specified above, the maximum states of the province of the pr	of 37 CFR 1.136(a). In no event, however, may unication.) days, a reply within the statutory minimum of	r a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this communi BABANDONED (35 U.S.C. § 133).	ication.
Status				
1)⊠ Resr	onsive to communication(s) file	d on <i>21 August 200</i> 3		
	• •	b)⊠ This action is non-final.		
3) Since	e this application is in condition f	, —	atters, prosecution as to the med C.D. 11, 453 O.G. 213.	its is
Disposition of	Claims			
4)	n(s) 1-8 is/are pending in the applif the above claim(s) is/are n(s) is/are allowed. n(s) 1-8 is/are rejected. n(s) is/are objected to. n(s) are subject to restrict apers specification is objected to by the drawing(s) filed on 21 August 20	e withdrawn from consideration. ion and/or election requirement. Examiner. 3 is/are: a)⊠ accepted or b)□		
Repla	acement drawing sheet(s) including		yance. See 37 CFR 1.85(a). ing(s) is objected to. See 37 CFR 1.1 hed Office Action or form PTO-15	
Priority under	35 U.S.C. § 119			
12)⊠ Ackn a)⊠ All 1.⊠ 2.⊟ 3.⊟	owledgment is made of a claim to b) Some * c) None of: Certified copies of the priority of the certified copies of the certified copies of application from the Internation	for foreign priority under 35 U.S.C. documents have been received. documents have been received in of the priority documents have be nal Bureau (PCT Rule 17.2(a)). In for a list of the certified copies received.	n Application No en received in this National Stag	e
Attachment(s)	•			
2) Notice of Di	eferences Cited (PTO-892) aftsperson's Patent Drawing Review (P Disclosure Statement(s) (PTO-1449 or to the light of the l	TO-948) Paper I	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-152)	

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DETAILED ACTION

Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)

- (e) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4-5 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The disclosure does not explain the claimed "at least two monitoring targets are associated with each station, said two targets also being associated with another station".

Claims 4-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear what is meant by the claim language "at least two monitoring targets are associated with each station, said two targets also being associated with another station".

Claim Rejections - 35 USC § 102

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1-8 are rejected under 35 U.S.C. 102(a) as being anticipated by United States Army Corps of Engineer Manual (EM).

Re claim 1. EM discloses in figures 9-12 and 9-13 a system for monitoring the movements, if any, of construction work parts, comprising: a plurality of measurement taking stations (D, C and U) able to sight targets and capable of being mounted at least in part on said parts; a plurality of reference targets linked to at least one station (R); a plurality of monitoring targets mounted on said construction work parts, at least one of said monitoring targets being associated with at least two stations (see par. 8-5); means to control each station for measuring at successive instants the coordinates of the reference targets and of the monitoring targets which are associated therewith with respect to said station; and means of processing the coordinates of the reference targets and of the monitoring targets computed by said stations at said successive instants so as to deduce therefrom a displacement, if any, of a monitoring target between two measurement instants (see par. 8-5).

Re claim 2. EM teaches a monitoring centre comprising said processing means; and means for transmitting from each station to said monitoring centre said coordinates of the monitoring and reference targets measured by said stations at said successive instants (see 8-5 and 8-6).

Re claim 3. EM teaches the processing means comprise means for applying, for each measurement instant, a mathematical algorithm to the set of measured coordinates of the reference targets and of the monitoring targets measured by the set of the said stations (see 9-1 – 9-2).

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Re claim 4. EM teaches the at least two monitoring targets are associated with each station, said two targets also being associated with another station (see par. 8-5 and chapter 9).

Re claim 5. EM teaches wherein each monitoring target associated with two stations consists of two target elements mounted on a construction work part in such a way that their mutual distance is fixed (see figures 9-12 and 9-13), one of the two stations measuring the coordinates of one of the monitoring target elements, the other station measuring the coordinates of the other monitoring target element (see chapter 9).

Re claim 6. EM teaches the mathematical algorithm is a method of least squares for calculating for each measurement instant the absolute position in space of the said monitoring targets, and said processing means furthermore comprise means for comparing the absolute position of each monitoring target at the successive measurement instants (see par.9-3).

Re claim 7. Monitoring system according to claim 1, wherein said coordinates are polar coordinates (inherent).

Re claim 8. EM teaches the processing means furthermore comprise means for identifying the reference targets, if any, or the monitoring targets, if any, corresponding to residuals obtained by the method of least squares greater than those of the other targets, and means for ignoring the measurements involving the said identified targets (see 9-3 Residuals and par. 9-4 # 7).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited to (McGugin et al.; Canty; Fuentes; Tomiolo; Pechersky; Judd et

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al.; Corti et al.; and Edwards et al.) all show various systems for detecting movements of construction work parts using optical sensors (stations) and reference (stable) targets or objects

for accurate measurements.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isam A Alsomiri whose telephone number is 703-305-5702. The examiner can normally be reached on Monday-Thursday and every other Friday (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H Tarcza can be reached on 703-306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Isam Alsomiri

January 20, 2005

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